

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-238272

(43)Date of publication of application : 23.08.2002

(51)Int.Cl.

H02N 11/00  
C01G 15/00  
H01L 35/22  
H01L 35/30  
H01L 35/32  
H01L 35/34

(21)Application number : 2001-030273

(71)Applicant : TOKYO GAS CO LTD

(22)Date of filing : 06.02.2001

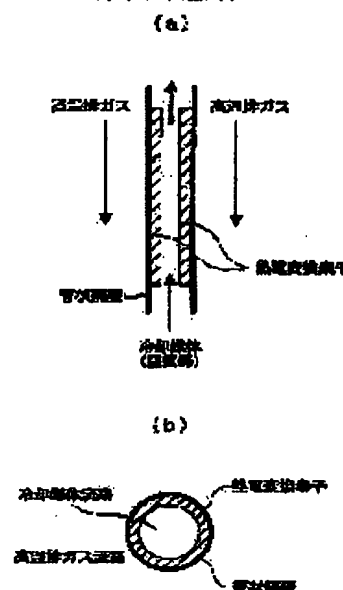
(72)Inventor : MOCHIDA TADASHI  
NAKAMURA KAZUO  
FUJITA KENJIRO  
YAMASHITA SATOSHI  
YAKABE HISATAKA

### (54) GENERATING STATION UTILIZING HIGH-TEMPERATURE EXHAUST HEAT

#### (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain a generating station utilizing high-temperature exhaust heat which utilizes a thermoelectric conversion element constituted of a specific thermoelectric conversion material and utilizes an exhaust heat of a high-temperature exhaust gas as a high-temperature side heat source.

**SOLUTION:** The high-temperature exhaust heat utilizing generating station comprises a cooling medium channel and a high-temperature exhaust gas channel formed via a partition wall. The generating station further comprises the thermoelectric conversion element made by alternatively coupling a specific n-type thermoelectric conversion material and a p-type thermoelectric conversion material and disposed onto the partition wall surface of the cooling medium channel side or the partition wall surface of the high-temperature exhaust gas channel side to output a power.



### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]